

DRILL HOLES

BORDER REV. DATE: June 11, 2004

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## PROJECT DESCRIPTION

### GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF GUILFORD ROAD AT DORSEY RUN ROAD INTERSECTION. PARTIAL RECONSTRUCTION OF THE TRAFFIC SIGNAL IS REQUIRED. GUILFORD ROAD IS ASSUMED TO RUN IN AN EAST - WEST DIRECTION, DORSEY RUN ROAD IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.

### INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE AS IN EXISTING CONDITIONS. THIS SIGNAL IS INTERCONNECTED TO THE EASTBOUND MD 32/ DORSEY RUN ROAD AND THE WESTBOUND MD 32/ DORSEY RUN ROAD SIGNALIZED INTERSECTIONS.

### CONTROLLER REQUIREMENTS

INSTALL A NEMA 8 PHASE CONTROLLER IN A NEMA 6 BASE MOUNTED CABINET.

THE PRESENCE AND SAMPLING DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH VIDEO-DETECTION CAMERAS AND MICRO PROBE LOOP DETECTION. THE ADVANCED DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH NON-INVASIVE DETECTORS.

### SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

#### PROJECT CONTACTS:

MR. JOHN CONCANNON, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (301) 624-8140

MR. RAY JOHNSON, ASSISTANT DISTRICT ENGINEER- MAINTENANCE  
PHONE: (301) 624-8105

MS. ANDREA ABEND, UTILITY ENGINEER  
PHONE: (301) 624-8115

MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 781-7630

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR ACCORDING TO THE MOT PLANS. REFER TO MOT PLAN PHASE 1.

### B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
114020	10 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT	LF	160.0
114045	24 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT	LF	60.0
114260	REMOVABLE PREFORMED ARROWS	EA	1.0
203030	TEST PIT EXCAVATION	CY	1.0
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	9.3
805115	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	450.0
805118	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	290.0
805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	70.0
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	600.0
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	240.0
810601	NONINVASIVE DETECTOR, 500 FOOT LEAD IN CABLE	EA	1.0
810605	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE	EA	2.0
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	11.0
813015	INSTALL OVERHEAD SIGN	SF	32.0
816001	VIDEO DETECTION CAMERA	EA	3.0
816010	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	3.0
818041	STEEL POLE WITH A SINGLE 60 FOOT MAST ARM	EA	1.0
818050	STEEL POLE WITH TWIN 50 FOOT AND 60 FOOT MAST ARMS	EA	1.0
831010	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE	EA	1.0
832020	BARE COPPER GROUND WIRE, NO. 6 AWG	LF	260.0
837001	GROUND ROD - 3/4 INCH DIA. X 10 FT LENGTH	EA	2.0
860284	12" LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	39.0
860292	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	EA	1.0
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	90.0
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	1700.0
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	260.0
866103	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	EA	1.0
800000	REMOVE AND DISPOSE MATERIALS & EQUIPMENT	LS	1.0
800000	8" LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	9.0

## EQUIPMENT LIST

### A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
973023	FLAT SHEET ALUMINUM SIGNS (BLUE OR GREEN) 2 EA D3-2 DOUBLE FACED (VARIABLE X 16")	SF	32.0
900000	VIDEO DETECTION INTERFACE EQUIPMENT FOR 5-8 CAMERAS	EA	1

### C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.

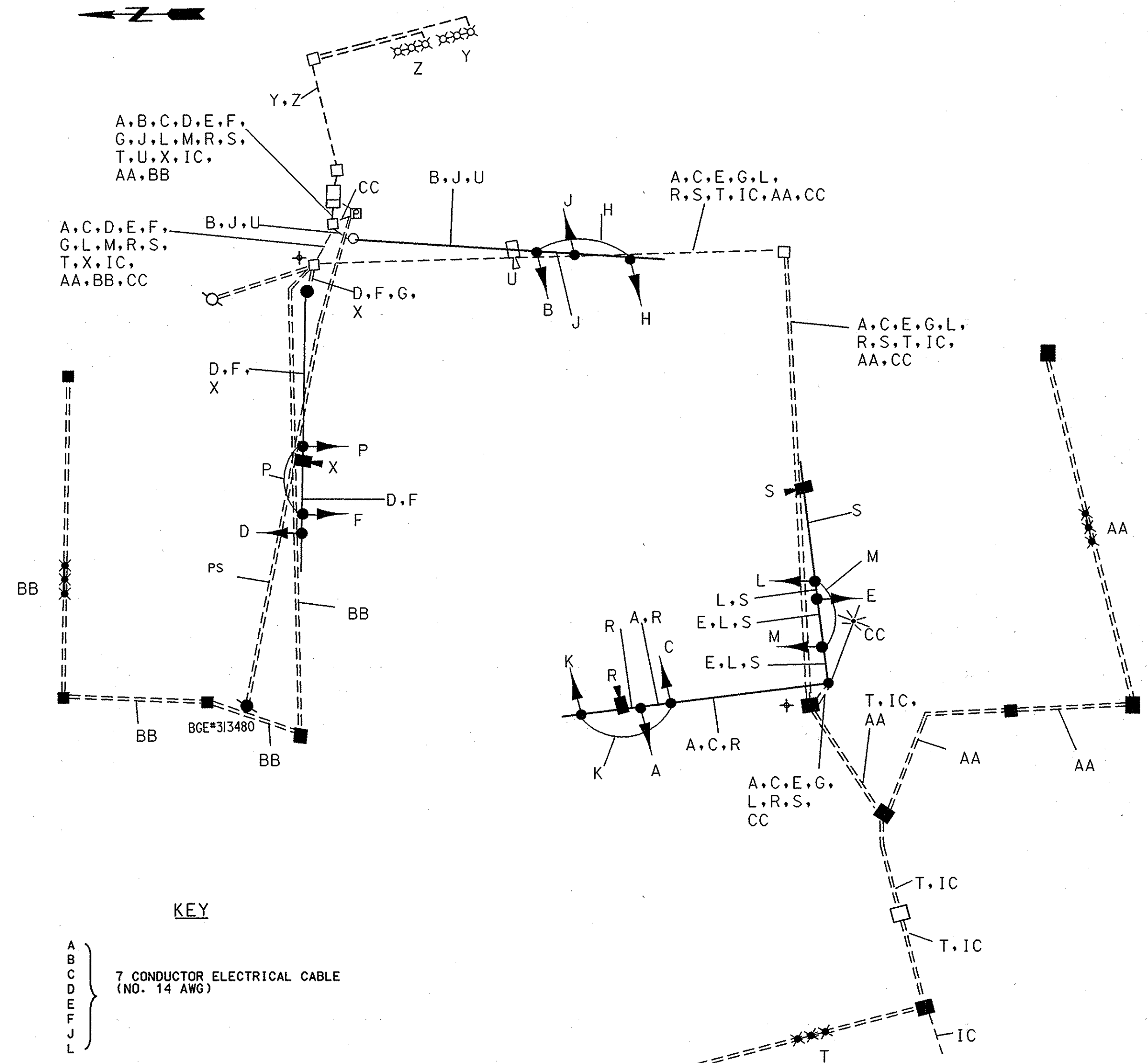
ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

## PHASE CHART

1	2	3	4	5	6	7	8	9	10	11	12
(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)
12"	12"	12"	12"	12"	12"	8"/12"	12"	12"	8"/12"	12"	12"

2 AND 5 OR 2 AND 6	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 2 AND 5	R	R	R	+G/G	+G/G	G	R	R	R	R	R	R
2 AND 5 CHANGE	R	R	R	+Y	+Y	Y	R	R	R	R	R	R
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	+G/G	+G/G	G	G
3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	Y
PHASE 4	R	R	R	R	R	R	+G/G	+G/G	G	R	R	R
4 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

## WIRING DIAGRAM



### KEY

A  
B  
C  
D  
E  
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H  
I  
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N  
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P  
Q  
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S  
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V  
W  
X  
Y  
Z

7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

H  
K  
M  
P

5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

R  
S  
X

VIDEO DETECTION CABLE

T  
AA

NON-INVASIVE MICRO PROBE LOOP SET 1000 FT

BB

NON-INVASIVE MICRO PROBE LOOP SET 500 FT

CC

2 CONDUCTOR ELECTRICAL CABLE TYPE T/C (NO 12 AWG)

G

1 CONDUCTOR STRANDED BARE COPPER GROUND (NO. 6 AWG)

U  
Y  
Z

EXISTING CABLE

PS

POWER SOURCE

IC

INTERCONNECT CABLE

+

GROUND ROD

SHA NO : BW389M84  
DORSEY RUN ROAD  
AND GUILFORD DRIVE



**Gannett Fleming**

4701 Mt. Hope Drive  
Seton Business Park  
Baltimore, Maryland 21215  
410-585-1460



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
TEMPORARY TRAFFIC SIGNALIZATION PLAN - PHASE I  
GUILFORD ROAD AT DORSEY RUN ROAD  
ROADWAY IMPROVEMENTS

### GENERAL INFORMATION

SCALE NTS DATE SEPT. 2007 CONTRACT NO.

DESIGNED BY DKS COUNTY HOWARD  
DRAWN BY DKS LOGMILE 13732R00.56  
CHECKED BY TCC T.I.M.S. NO. G467  
F.A.P. NO. TOD NO.

DRAWING NO. TS 4253B-61 OF SHEET NO. 89 OF 156